

34. (Once Amended) The spectroscopic system of claim 30, wherein the spectroscopic system includes a means for channeling the emitted radiation to the sample.

48. (Once Amended) A method for homogenizing radiation for spectroscopic analysis of a sample having an analyte concentration, the method comprising the steps of:

providing a spectroscopic system, wherein the system comprises a radiation source emitter, a radiation homogenizer, and a radiation detector;
emitting radiation by means of the radiation source emitter;
angularly homogenizing the emitted radiation;
spatially homogenizing the emitted radiation;
illuminating the sample with the homogenized radiation; and
detecting the analyte concentration within the sample source.